

Lens Kit for SIM 5W Night Vision



Installation Manual
QCLD (1.1 - 1.3:1) IRIS

R9849853

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1. LENS KIT FOR SIM 5W NIGHT VISION



CAUTION: Never transport the projector with the lens mounted on it!
Always remove the lens before transporting the projector.

1.1 Kit contents

Kit contents

The kit contains the following components:

- QCLD (1.1 – 1.3: 1) IRIS
- Installation Manual (R59770400)
- Toraysee™ Cloth

1.2 Available lens type

Product number

Lens	Product number
QCLD (1.1 – 1.3: 1) IRIS	R9849853

1.3 Lens formulas

Formulas

Lens	Metric formulas (meter)	Inch formulas (inch)
QCLD (1.1 – 1.3:1)	$PD_{\min} = 1.02 \times SW + 0.05$ $PD_{\max} = 1.2 \times SW + 0.06$	$PD_{\min} = 1.02 \times SW + 1.97$ $PD_{\max} = 1.2 \times SW + 2.36$

2. LENS INSTALLATION

2.1 Description

About Night Vision lens

The night vision lens enables you to see the images as they appear in the dark. Please follow the procedures in every topic to install the new lens and enable the night vision feature in your projector.

2.2 Installing the new lens

Necessary tools

Allen key – 1.5 mm

How to install the new lens?

1. Take the lens out of the packing material
2. Remove the protective lens covers from the front and back



Image 2-1
Remove the front protective lens cover (A) and back protective lens cover (B)

3. Rotate the zoom and focus ring slowly and check if the rings turn freely
If yes, then proceed to the next step
If no, then you need to release the top, left, right and bottom fixing screws of the zoom ring

2. Lens installation

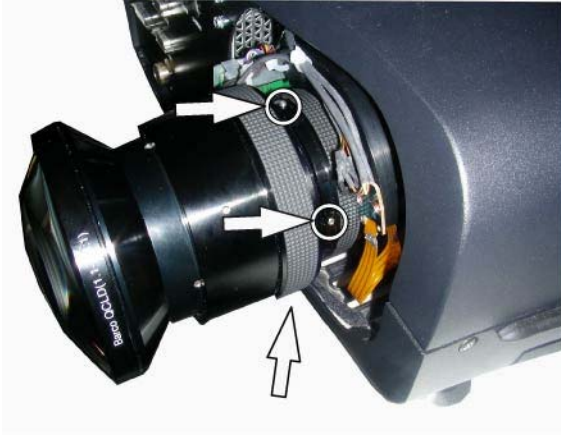


Image 2-2
Screws to loosen the zoom ring

4. Make sure the lens lock holder is in the left position

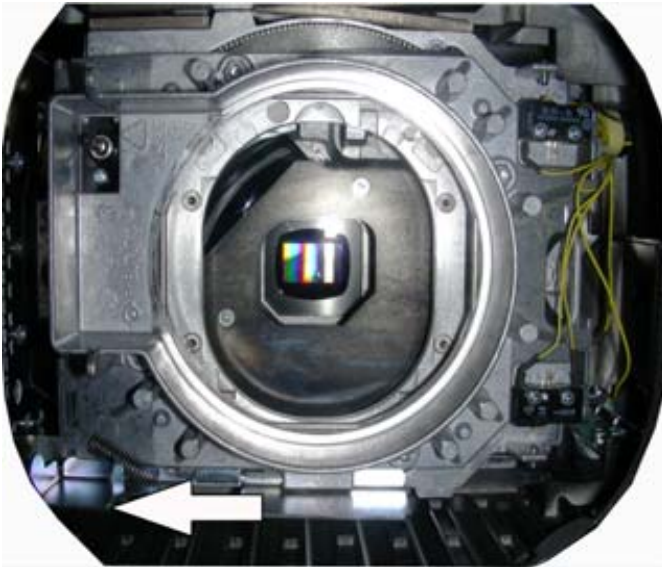


Image 2-3
Make sure the lens lock holder is in the left position

5. Lock the lens by placing it in the housing, push carefully to lock ("click" sound) the lens in the housing



Image 2-4
Slot on the right side of the lens (C)

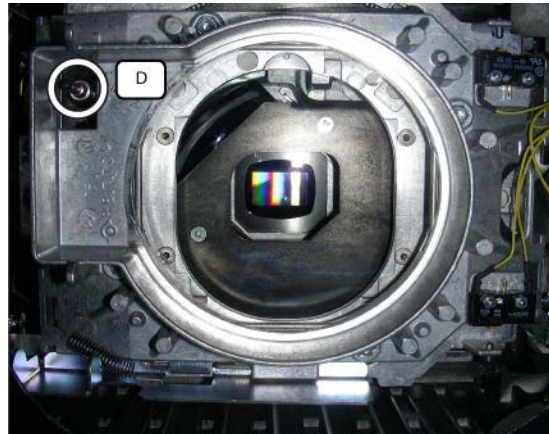


Image 2-5
Male jack (D) at the lens housing of the projector

Caution: The slot on the right side of the lens (C) must be in front of the male jack (D) located at the upper-left part of the housing in the projector. See image 2-4 and image 2-5

2.3 Adjusting the zoom and focus of lens manually

Necessary tools

Allen key – 1.5 mm

How to adjust the zoom and focus of lens manually?

1. Switch on the projector
2. Turn the zoom ring on the lens to project the image in the desired zoom position
3. Turn the focus ring on the lens until the projected image is well focused
4. Once the clear image is zoomed and focused, tighten the screws of the zoom ring

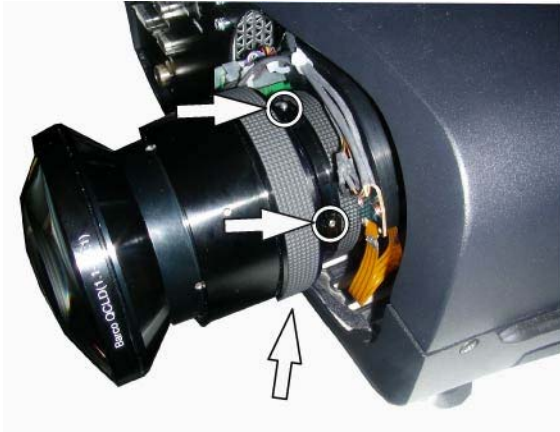


Image 2-6
Tighten the fixation screws of zoom ring

5. Connect the wire from the lens to the **NVG** (Night Vision Goggles) input and fix it using the ring



Image 2-7
Connect the wire from the lens to the NVG input

Caution: After connecting the wire, do not adjust the zoom and focus ring.

2.4 Adjusting the lens shift



CAUTION: Once you tighten the screws of the zoom ring, please do not turn it anymore.



The motorized zoom or focus of lens is not available.



CAUTION: If you adjust the zoom or focus of lens manually, you must reset the ECR once again.

How to adjust the lens shift?

1. Select the Lens adjustment menu

The lens adjustment dialog box will be displayed.

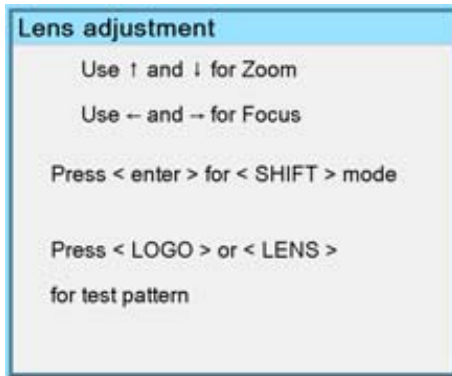


Image 2-8

2. Press **ENTER** to switch to Shift mode

The lens shift adjustment dialog box will be displayed.

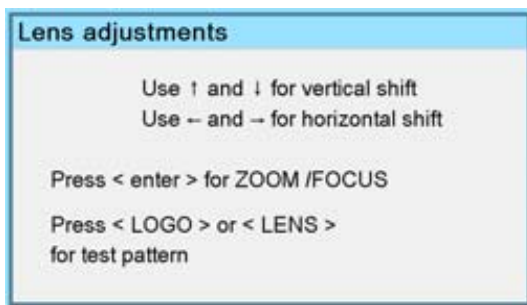


Image 2-9

3. Use the cursor key ↑ or ↓ to shift the image to the desired vertical position

2.5 Resetting the ECR

Overview

After following all the procedures described in the above topics, you need to reset the ECR.

To reset the ECR, you need access to the advanced menu items in the **Service** menu.

To view the advanced menu items in the **Service** menu:

1. Go to **Service** menu
2. Select **More...**
3. Type the default password being '0000'
The **Reset ECR** option will be available in the **Service** menu now.

How to reset the ECR?

1. Press the **MENU** key to activate the Menu bar
2. Push the cursor key ← or → to highlight **Service** in the menubar
3. Push the ↓ key to pull down the **Service** menu
4. Push the cursor key ↑ or ↓ to highlight **Dimming**
5. Push the → key to pull down the **Dimming** menu
6. Push the cursor key ↑ or ↓ to select **Reset ECR** and press **ENTER** to select.



Image 2-10

The ECR dimmers will go to their reference positions first and then back to the desired value. This may take a few seconds.



By restarting the projector, you can also reset the ECR.

2.6 Modifying the night vision settings

What can be done?

You can modify the night vision settings from the **CLO** menu and also from the **Dimming Control** menu from the OSD.



To know more about how to modify the night vision settings, please refer to the existing User Guide.

2. Lens installation

3. MOUNTING THE CABLE BASKET

3.1 Overview

Why mount the cable basket?

After making all the necessary connections to the projector, you have to mount the cable basket to the projector. This procedure is necessary as this will avoid stray light from projecting out.

3.2 Fixing the cable basket to the projector

How to fix the cable basket to the projector?

1. Make all the necessary connections to the projector
2. Look for four holders E, F, G, and H inside the cable basket

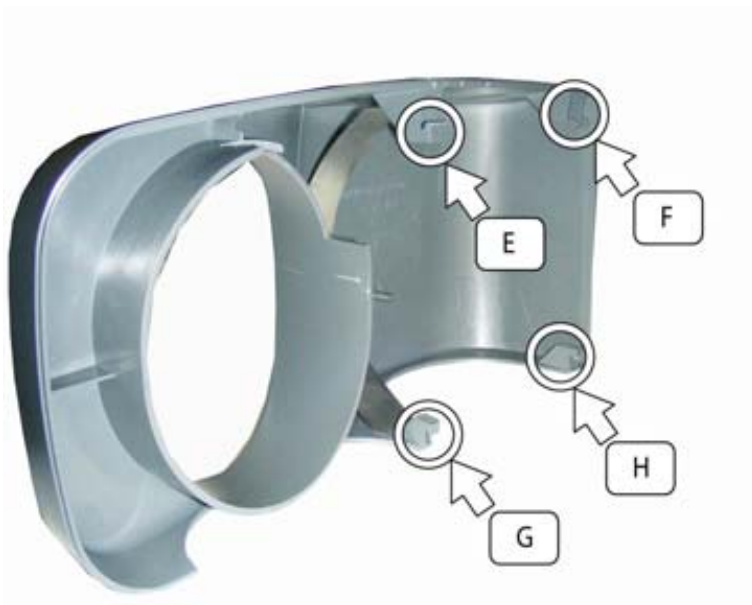


Image 3-1
Cable basket: top holders (E), (F) and bottom holders (G), (H)

3. Place the bottom holders G and H in correct position to the bottom slots G and H found in the front side of the projector, so that they fit in properly

3. Mounting the cable basket

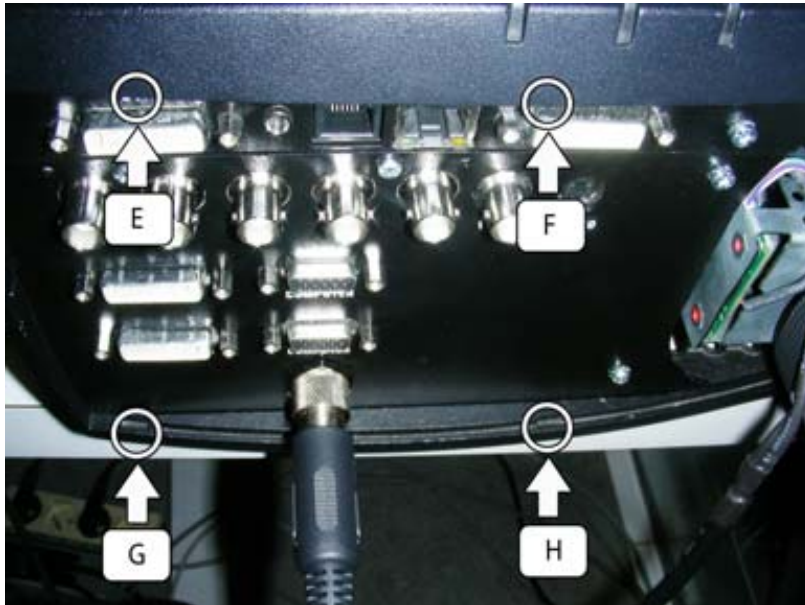


Image 3-2
Projector: top slots (E), (F) and bottom slots (G), (H)

4. Now press the top of the cable basket slightly downwards so that E and F of the cable basket fits into the top two slots E and F of the projector
5. After fitting the cable basket to the slots, push the cable basket towards the projector slowly so that it fits tight

4. LENS MAINTENANCE

4.1 Cleaning the lens



To minimize the possibility of damage to optical coatings, or scratches to lens surfaces, we have developed recommendations for cleaning. **FIRST**, we recommend you try to remove any material from the lens by blowing it off with clean, dry deionized air. **DO NOT** use any liquid to clean the lenses.

Necessary tools

Toraysee™ cloth (delivered together with the lens kit). Order number : R379058.

How to clean the lens ?

1. Always wipe lenses with a CLEAN Toraysee™ cloth.
 2. Wipe lenses in a one single direction.
Warning: *Do not wipe back and forwards across the lens surface as this tends to grind dirt into the coating.*
 3. Do not leave the cleaning cloth in either an open room or lab coat pocket, as doing so can contaminate the cloth.
 4. If smears occur when cleaning lenses, replace the cloth. Smears are the first indication of a dirty cloth.
-



CAUTION: Do not use fabric softener when washing the cleaning cloth or softener sheets when drying the cloth.

Do not use liquid cleaners on the cloth as doing so will contaminate the cloth.



Other lenses can also be cleaned safely with this Toraysee™ cloth.

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Revision Sheet

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